

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer system for selecting and organizing individual test cases ~~from a binary program module of test cases~~ for use in testing a computer program to ensure that the program processes as intended, the system comprising:

~~a binary~~ one or more program module modules storing one or more ~~a plurality of individually accessible available~~ test cases, each comprising a set of instructions for testing a feature of the computer program through a language and format independent interface;

a harness client comprising a set of instructions that (i) receives user input specifying one or more filenames corresponding to the one or more program modules, (ii) executes a connector to scan for and discover the one or more available test cases that are stored in the one or more program modules and to organize the one or more available test cases into a test case hierarchy, and (iii) receives user input indicating which of the one or more available test cases in the test case hierarchy are selected to be executed on the computer program;

a harness comprising a set of instructions that (i) receives the test case hierarchy, (ii) traverses ~~executes the~~ test case hierarchy, and (iii) executes each of the one or more selected available test cases within a test case hierarchy that is selected to be executed on the computer program using the corresponding language and format independent interface of the one or more the selected test cases case to ensure that the computer program processes as intended;

a connector comprising a set of instructions that (i) scans for the one or more available test cases stored in the one or more program module modules, (ii) organizes the one or more available test cases into the test case hierarchy and ~~extracts by extracting the~~ one or more available test cases from the one or more program modules for use in testing

~~the computer program to ensure that it processes as intended, the connector creating a hierarchy of the one or more available test cases, and (iii) selectively integrating integrates an interface between the test case hierarchy and the harness regardless of the language or format in which the one or more available test cases were written; and~~

~~a harness client comprising a set of instructions that (i) receives user input specifying a search property for identifying the one or more available test cases to be the executed on the computer program, (ii) employs the connector to create the test case hierarchy of the one or more available test cases, (iii) receives user input for selecting the one or more selected test cases from the one or more available test cases to execute on the computer program, and (iv) receives user input for specifying how the one or more selected test cases are to be executed on the computer program; and~~

~~a processor for executing the one or more each selected test cases case, the harness, the harness client, and the connector.~~

2. (Previously Presented) A computer system as recited in claim 1, wherein the set of instructions of the harness and the set of instructions of the connector utilize an architecture that defines a means for accessing a resource over a network.

3. (Previously Presented) A computer system as recited in claim 2, wherein the architecture is COM technology.

4. (Currently Amended) In a computer system that includes a processor, a computer program to be tested, a ~~binary-program module storing a plurality of individually accessible one or more~~ test cases of interest for use in testing the computer program, a harness for executing individual test cases on the computer program, a harness client for receiving user input, and a connector for interfacing between the ~~binary-program module one or more test cases of interest~~ and the harness, a method for ~~selecting and extracting test cases from the binary-program module for use in testing the computer program to determine whether the computer program processes as intended, the method comprising the steps for~~ acts of:

the harness client (i) ~~receiving user input that (i) specifies a search property one or more filenames to identify one or more test cases of interest~~ the program module, (ii) ~~executes the connector to scan for and discover the one or more test cases of interest that are stored in the program module and to organize the one or more test cases of interest into a test case hierarchy~~ selects one or more test cases from the one or more test cases of interest to execute on the computer program, and (iii) ~~receives user input indicating that the one or more test cases of interest in the test case hierarchy are to be executed on the computer program~~ specifies how the one or more selected test cases are to be executed on the computer program;

the connector ~~scanning the binary-program module storing the plurality of individually accessible the one or more test cases of interest stored in the program module~~ for one or more test cases of interest, each test case having a language and format independent interface for executing the test case on the computer program regardless of the language or format used to develop the test case;

the connector extracting the one or more test cases of interest from the ~~binary program module~~;

the connector organizing one or more test cases of interest into a ~~the~~ test case hierarchy;

the connector interfacing a ~~the~~ harness with the one or more test cases of interest, wherein the interfacing allows the harness to recognize and execute the one or more test cases of interest regardless of the language or format in which the one or more test cases of interest were developed; and

the harness traversing the test case hierarchy and executing each of the one or more ~~selected~~ test cases of interest to test the computer program.

Claims 5 – 6 (cancelled).

7. (Previously Presented) A method as recited in claim 4, wherein the method further includes the step for determining whether one or more of the test cases of interest are identified as being deselected, wherein a deselected test case is not executed on the computer program.

8. (Original) A method as recited in claim 7, wherein one or more test cases comprise a test suite in the hierarchy.

9. (Original) A method as recited in claim 8, wherein one or more test suites comprise a test module in the hierarchy.

10. (Original) A method as recited in claim 9, wherein upon the user selecting a test suite, the one or more test cases that comprise the test suite, excluding any test cases determined to be deselected are selected.

11. (Original) A method as recited in claim 10, wherein upon the user selecting a test module, the one or more test suites that comprise the test module, excluding any test cases determined to be deselected are selected.

12. (Previously Presented) A method as recited in claim 4, wherein the step for traversing further includes executing the one or more test cases on a thread pool comprising one or more threads.

13. (Original) A method as recited in claim 12, wherein the step for traversing further includes copying a selected test case across all of the one or more threads, and wherein the selected test case is executed across all of the one or more threads.

14. (Previously Presented) A method as recited in claim 12, wherein the step for traversing further includes executing a selected test case on one of the threads.

15. (Currently Amended) A computer program product for implementing within a computer system a method for testing a computer program to determine whether the computer program processes as intended, the computer program product comprising:

computer readable medium for providing computer program code means utilized to implement the method, wherein the computer program code means is comprised of executable code for implementing the ~~steps for~~acts of:

receiving user input that (i) specifies a search property one or more filenames to identify one or more test cases of interest~~program modules storing one or more test cases of interest, each comprising a set of instructions for testing a feature of the computer program through a language and format independent interface, (ii) selects one or more test cases from the one or more test cases of interest to execute on the computer program, and (iii) specifies how the one or more selected test cases are to be executed on the computer program;~~

executing a connector to scan for and discover the one or more test cases of interest that are stored in the program module and to organize the one or more test cases of interest into a test case hierarchy;

receiving user input indicating that the one or more test cases of interest in the test case hierarchy are to be executed on the computer program;

scanning a binary for the one or more test cases of interest that are stored in the one or more program module modules~~that stores a plurality of individually accessible test cases for one or more test cases of interest to be used in testing the computer program, each test case having a language and format independent interface for executing the test case on the computer program regardless of the language or format used to develop the test case;~~

extracting the one or more test cases of interest from the binary program module;

organizing the one or more test cases of interest into a the test case hierarchy;

interfacing with the one or more test cases of interest to recognize and execute the one or more test cases of interest regardless of the language or format in which the one or more test cases of interest were developed; and

traversing the test case hierarchy, ~~and to execute~~
~~executing each of the~~ the one or more selected test cases of interest on the
computer program, ~~regardless of the language or format in which the one or more~~
~~test cases of interest were written.~~

16. (Original) A computer program product as recited in claim 15, wherein the step for traversing is performed by the harness.

17. (Original) A computer program product as recited in claim 15, wherein the step for interfacing is performed by one or more connectors.

18. (Previously Presented) A computer program product as recited in claim 15, wherein the step for organizing the test cases of interest into a hierarchy includes grouping one or more of the test cases into a test suite.

19. (Previously Presented) A computer program product as recited in claim 18, wherein the step for organizing the one or more test cases of interest into a hierarchy includes grouping one or more test suites into a test module.

20. (Previously Presented) A computer program product as recited in claim 15, wherein the one or more test cases executed on the computer program are selected by a user through a user interface provided by a harness client.

21. (Previously Presented) A computer program product as recited in claim 20, wherein the step for traversing further includes executing the one or more selected test cases on a thread pool comprising one or more threads.

22. (Original) A computer program product as recited in claim 21, wherein the step for traversing further includes copying a selected test case across all of the one or more threads, and wherein the selected test case is executed across all of the one or more threads.

23. (Previously Presented) A computer program product as recited in claim 21, wherein the step for traversing further includes executing a selected test case on one of the threads.

24. (Currently Amended) In a computer system that includes a computer program to be tested, a program module of one or more test cases written in any format or language for testing the computer program, a harness for executing one test cases on the computer program, a harness client for receiving user input, and one or more connectors for interfacing test cases with the harness, a method for testing the computer program to determine whether the computer program processes as intended, the method comprising ~~the acts of~~ steps for:

~~receiving user input that (i) specifies a search property specifying one or more~~
filenames for identifying one or more program modules storing one or more test cases,
each comprising a set of instructions for testing a feature of the computer program
through a language and format independent interface, ~~(ii) selects one or more test cases~~
~~from the one or more test cases of interest to execute on the computer program, and (iii)~~
~~specifies how the one or more selected test cases are to be executed on the computer~~
~~program;~~

~~identifying the one or more test cases from a binary within the one or more~~
~~program module modules that stores a plurality of individually accessible test cases based~~
~~on the search property each test case implementing a language and format independent~~
~~interface for executing the test case on a computer program regardless of the language or~~
~~format used to develop the test case;~~

~~translating the identified one or more test cases into a test case hierarchy;~~

~~indicating that the one or more test cases in the test case hierarchy are to be~~
executed on the computer program;

~~providing an interfacing interface to~~ the test case hierarchy in order to recognize
and execute the one or more test cases regardless of the language or format in which the
one or more test cases were written; and

~~executing running~~ each of the one or more ~~selected test cases in the test case~~
~~hierarchy to test the computer program regardless of the language or format in which the~~
~~one or more test cases were written.~~

25. (Original) A method as recited in claim 24, wherein the act of executing is performed on a thread pool comprising one or more threads.

26. (Previously Presented) A method as recited in claim 25, wherein the act of executing is further performed by executing a selected test case on one of the threads.

27. (Previously Presented) A method as recited in claim 25, wherein the act of executing is further performed by copying the one or more selected test cases across all of the one or more threads, and wherein the selected test case is executed across all of the one or more threads.